

ABSTRACT OF THE DISCLOSURE

A canal hearing device has a subminiature filament assembly which vibrates and directly drives the tympanic membrane (eardrum) and imparts audible mechanical vibrations thereto. The filament assembly is partially supported by the tympanic membrane via capillary adhesion thereto and is dynamically coupled to a stationary vibration force element positioned at a distance from the tympanic membrane within the ear canal. The elongated filament assembly is freely movable within an operable range and is essentially floating with respect to the vibration force element. In a preferred embodiment, the vibrational filament assembly comprises a magnetic section which is insertable into the air-core of an electromagnet coil. The filament assembly is coupled to the tympanic membrane via an articulated tympanic contact coupler.